

Lens, the blue at *r* will accordingly disappear and return, without any change made in the red at *r*. The red therefore depends on one sort of rays, and the blue on another sort, which in the Focus *G* where they are commixt do not act on one another. And there is the same reason of the other Colours.

I considered further, that when the most refrangible rays *Pp*, and the least refrangible ones *Tt*, are by converging inclined to one another, the Paper, if held very oblique to those rays in the Focus *G*, might reflect one sort of them more copiously than the other sort, and by that means the reflected Light would be tinged in that Focus with the Colour of the predominant rays, provided those rays severally retained their Colours or colorific qualities in the composition of white made by them in that Focus. But if they did not retain them in that white, but became all of them severally endued there with a disposition to strike the sense with the perception of white, then they could never lose their whiteness by such reflexions. I inclined therefore the Paper to the rays very obliquely, as in the second Experiment of this Book, that the most refrangible rays might be more copiously reflected than the rest, and the whiteness at length changed successively into blue, indigo and violet. Then I inclined it the contrary way, that the most refrangible rays might be more copious in the reflected Light than the rest, and the whiteness turned successively to yellow, orange and red.

Lastly, I made an Instrument *XY* in fashion of a Comb, whose Teeth being in number sixteen were about an Inch and an half broad, and the intervals of the Teeth about two Inches wide. Then by interposing suc-

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